MDRR-DT 14.7mm Miniature Changeover Reed Switch





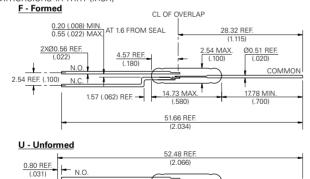
Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
c AN us	E47258 E471070	10-30 AT

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions





Electrical Ratings

Description

The MDRR-DT Reed Switch is a miniature changeover switch with a 14.73mm long x 2.54mm diameter (0.580" x 0.100") glass envelope, capable of switching 175Vdc at 5W. It has insulation resistance of 10⁹ ohms minimum, and contact resistance less than 100 milli-ohms. The MDRR-DT is available in surface mount version, that is, MDSM-DT.

Features

- Miniature SPDT changeover switch
- Capable of switching 175Vdc or 0.25A at up to 5W

Benefits

- · Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- · Can be used as changeover or normally closed contact

Applications

- Position Sensing
- Reed Relays
- Industrial Controls

Switch Type

Contact Form	C (SPDT-CO)
Materials	Body: Glass Leads: Tin-plated Ni-Fe wire

Note: SPDT-CO = Single-Pole, Double-Throw, Change Over

Contact Rating 1		W/VA - max.	5
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	175 120 200
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.25 0.18 1.50
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10 ⁹
Capacitance	Contact	pF - typ.	1
Temperature	Operating Storage ⁵	°C °C	-40 to +125 -65 to +125

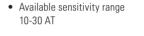
Notes:

Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.

2. When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details. 3. Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.

4. Breakdown Voltage - per MIL-STD-202, Method 301.

5. Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.



· Zero operating power required for

microcontroller logic level loads

contact closure

• Office Equipments

Home Appliances

Security

Excellent for switching



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Product Characteristics

Operating Characteristics				
Operate Time 1		0.7ms - max.		
Release Time ¹		1ms - max.		
Shock ²	11ms 1/2 sine wave	50G - max.		
Vibration ²	50-2000 Hertz	30G - max.		
Resonant Frequency		11.0kHz - typ.		
Magnetic Characteristics				
Pull-In Range ³	Ampere Turns	10-30		
Rating Sensitivity ⁴	Ampere Turns	20		
Test Coil		L4989		

Notes:

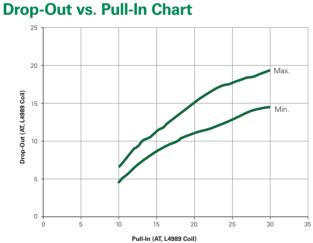
1. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).

2. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

3. Pull-In Range - Contact Littelfuse for narrower AT ranges available.

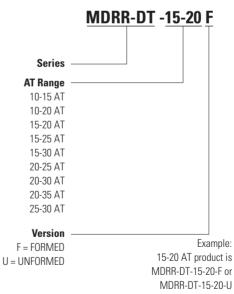
4. Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.

5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.



Note: Chart represents the range of Drop-Out, min to max for a given Pull-In value.

Part Numbering System



Note: These AT values are the before-modification values of the bare reed switch.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code	Taping Width
Bulk	Bulk	1000	N/A	N/A

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

<u>MDRR-DT 15-25 U MDRR-DT 20-30 U MDRR-DT 20-25 F MDRR-DT 25-30 U MDRR-DT 20-25 U MDRR-DT 15-30</u> <u>F MDRR-DT-15-30-U MDRR-DT 20-30 F MDRR-DT 15-20 U MDRR-DT 25-30 F MDRR-DT 30-35 U MDRR-DT 15-25 F MDRR-DT 15-20 F MDRR-DT-30-35-U MDRR-DT-20-25-F MDRR-DT-15-20-F MDRR-DT-25-30-F MDRR-DT-15-25-F MDRR-DT-10-15-F MDRR-DT-10-15-U MDRR-DT-20-35-F MDRR-DT-30-35-F MDRR-DT-25-30-U MDRR-DT-15-25-U MDRR-DT-20-30-U MDRR-DT-15-20-U MDRR-DT-20-25-U MDRR-DT-20-30-F MDRR-DT-15-30-F MDRR-DT-15-30-F MDRR-DT-35-40-F</u>